

Fig 1

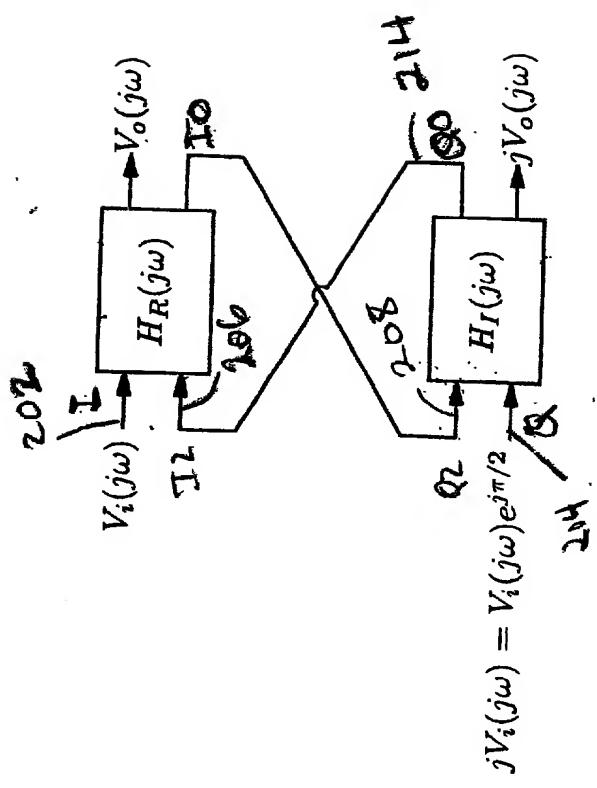


FIGURE 2

↙ 300

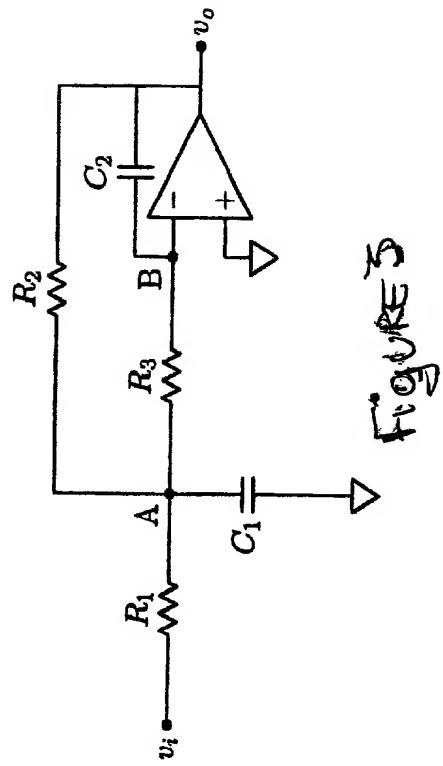


Figure 5

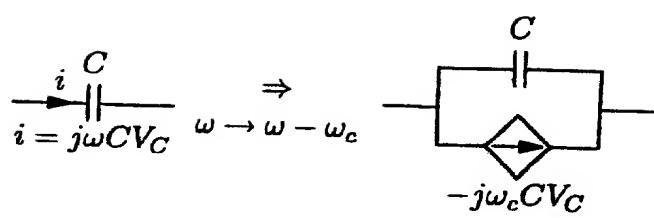


FIGURE 4

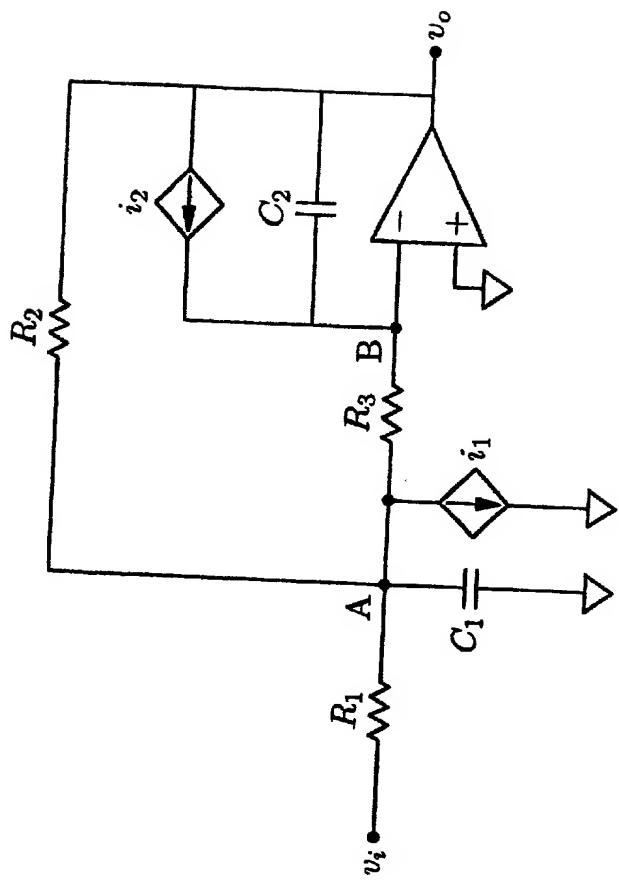


FIGURE 5

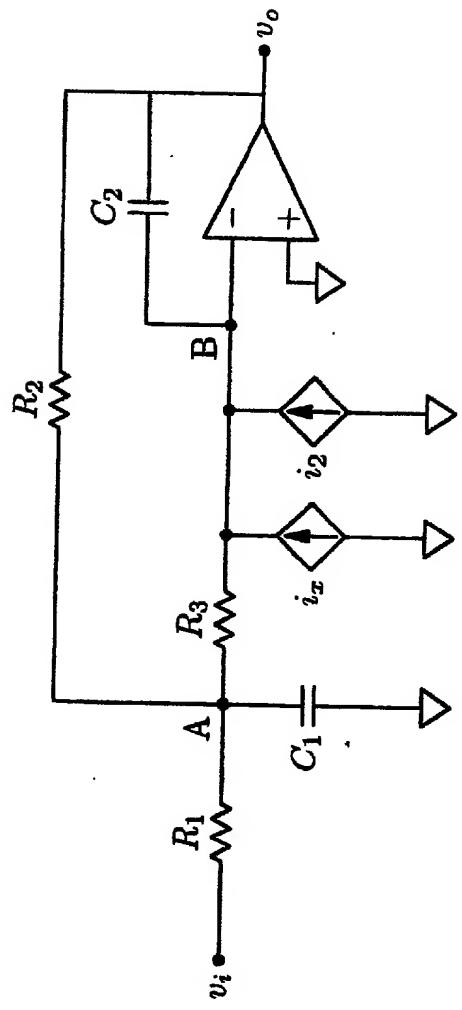


Figure 6:

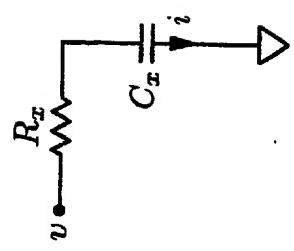


Figure 7:

object of the present paper is to show that the solution of the problem of the motion of a particle in a magnetic field is reduced to the solution of a system of linear differential equations of the second order.

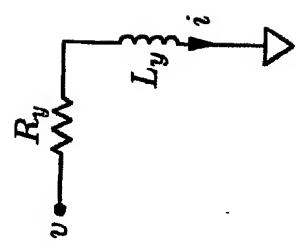


Figure 8:

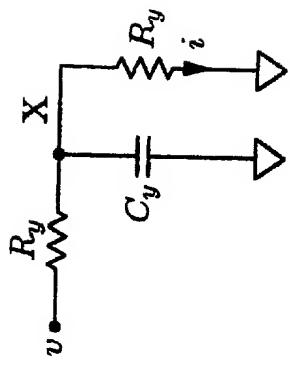
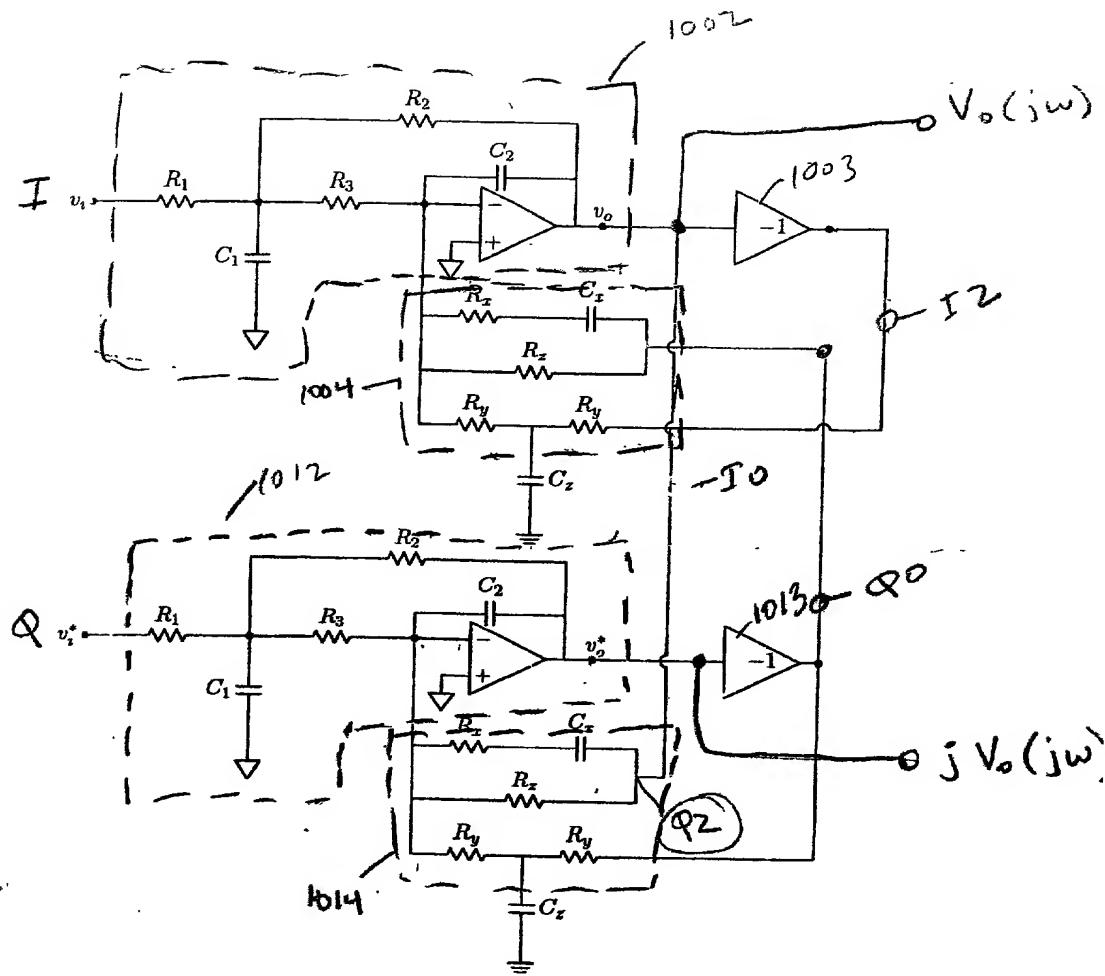


FIGURE 9



$$\begin{aligned}
 H_0 &= -\frac{R_2}{R_1} & R_y &= \frac{1}{2\omega_c^2 C_2} \frac{\omega_0}{Q} & R_x &= \frac{1}{\omega_c C_2} \\
 \omega_0^2 &= \frac{1}{C_1 C_2 R_2 R_3} & C_y &= \frac{2}{R_y} \frac{1}{\frac{\omega_0}{Q}} & C_x &= \frac{1}{R_x \frac{\omega_0}{Q}} \\
 \frac{\omega_0}{Q} &= \frac{1}{C_1} \left(\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} \right) & &= 4\omega_c^2 C_2 \left(\frac{\omega_0}{Q} \right)^2 & &= \frac{\omega_c C_2}{\frac{\omega_0}{Q}} \\
 & & & & & \\
 & & & & R_z &= 1/\omega_c C_2
 \end{aligned}$$

Figure 10: